

Storm Data and Unusual Weather Phenomena - September 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				

WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]

09/04/12 21:10 CST	0	Marine Thunderstorm Wind (MG 38 kt)
09/04/12 21:20 CST	0	Source: C-MAN Station

The C-Man station at the Kenosha Harbor (KNSW3) reported 10 minutes of wind gusts to 38-39 knots as the thunderstorms moved across the shore areas.

PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87]

09/04/12 23:10 CST	0	Marine Thunderstorm Wind (MG 40 kt)
09/04/12 23:20 CST	0	Source: C-MAN Station

The C-Man station at the Port Washington harbor (PWAUW3) reported 10 minutes of wind gusts of 35 to 40 knots. Sustained winds at the time were 25 to 32 knots. The main line of thunderstorms had already pushed through the area. These strong winds were caused by lingering gusty winds associated with a Wake Low event.

A broken line of thunderstorms with a few embedded strong thunderstorms moved across the near shore waters of Lake Michigan off southeast Wisconsin. These thunderstorms caused several wind gusts exceeding 33 knots. Gusty winds lingering behind the line of the thunderstorms also caused a few high wind gusts.

WISCONSIN, Southeast

(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA

09/01/12 00:00 CST	0	Drought
09/30/12 23:59 CST	0	

Below normal precipitation in September helped to continue the drought across southern Wisconsin. Several rounds of showers and thunderstorms, mainly during the early part of the month, brought between 0.5 inch and 3 inches of rain to southern Wisconsin for the month, but monthly deficits ranged from around 0.5 inch to between 2 and 3 inches. This increased the yearly precipitation deficits to between 5 and 9 inches. By the end of September a slight improvement in the drought was observed over the southeastern counties which went from D2 (severe) down to D1 (moderate), or from D3 (extreme) down to D2 (severe). This trend is reflected in the attached image. The extreme heat from earlier in the summer did not continue into September, with monthly average temperatures at or a bit below normal. Agricultural experts indicated that crop yields would be reduced.

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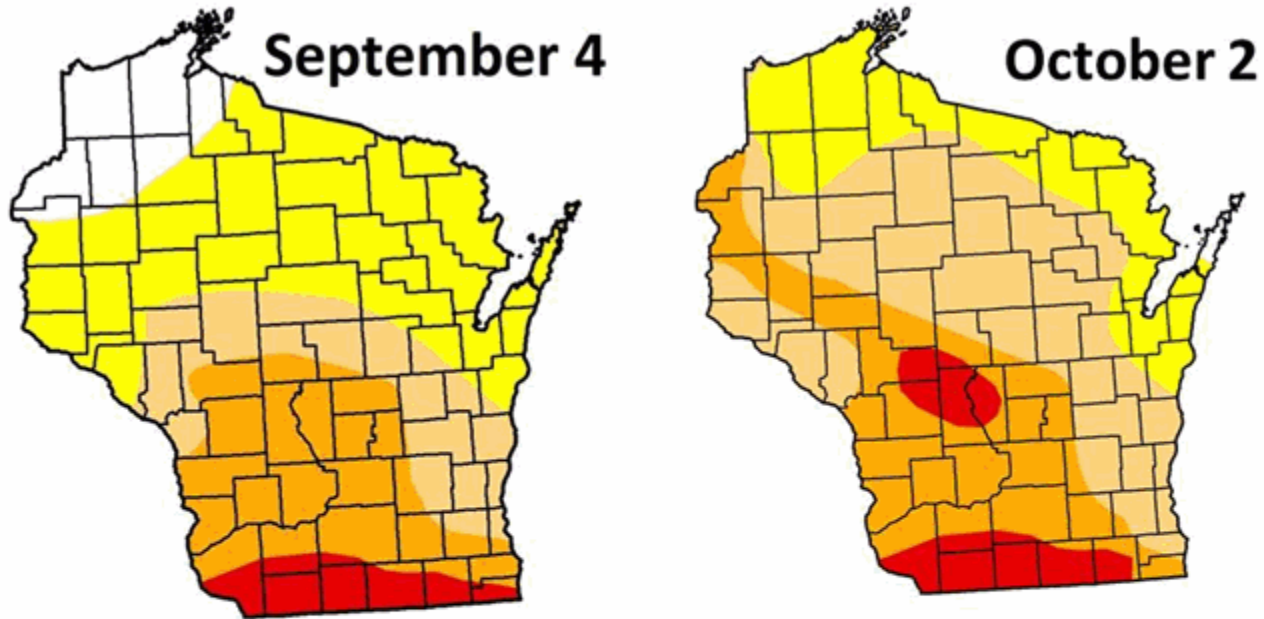
Location

Date/Time

Deaths &
Injuries

Property &
Crop Dmg

Event Type and Details



Week	Nothing	D0-D4	D1-D4	D2-D4	D3-D4	D4
September 4, 2012	11.15	88.85	47.38	29.39	6.04	0.00
October 2, 2012	0.46	99.54	78.27	35.53	8.63	0.00

Progression of drought conditions across Wisconsin during September, 2012. Percentages of area covered by the different drought ratings are provided in the table. There was slight improvement over southern Wisconsin for the month, but drought conditions worsened over the remainder of Wisconsin.

(WI-Z046) MARQUETTE, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z062) IOWA, (WI-Z063) DANE

09/04/12 01:30 CST	0	Dense Fog
09/04/12 07:00 CST	0	

Residual moisture from rain showers the evening before, combined with cooling due to clear skies and light winds, to produce dense fog over a good portion of South Central Wisconsin during the overnight and early daylight hours of September 4th. Many locations saw visibilities reduced to 1/4 mile or less.

SAUK COUNTY --- 3.0 S ROCK SPGS [43.44, -89.92], 5.0 SSW BARABOO [43.40, -89.77]

09/04/12 18:40 CST	12K	Thunderstorm Wind (EG 56 kt)
09/04/12 18:45 CST	0	Source: 911 Call Center

Sauk County 911 Call Center personnel reported trees and power lines were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) along a path from 3 miles south of Rock Springs to 5 miles south-southwest of Baraboo.

SAUK COUNTY --- 5.0 SE BARABOO [43.42, -89.66], MERRIMAC [43.37, -89.62]

09/04/12 18:46 CST	12K	Thunderstorm Wind (EG 56 kt)
09/04/12 18:49 CST	0	Source: 911 Call Center

Sauk County 911 Call Center personnel reported trees and power lines were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) along a path from 5 miles southeast of Baraboo to Merrimac.

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IOWA COUNTY --- 4.0 SSW AVOCA [43.13, -90.55]				
	09/04/12 18:55 CST		4K	Thunderstorm Wind (EG 56 kt)
	09/04/12 18:55 CST		0	Source: Law Enforcement
Law enforcement officials reported trees were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) 4 miles south-southwest of Avoca.				
COLUMBIA COUNTY --- 4.1 NE OKEE [43.39, -89.52], 5.0 ESE ARLINGTON [43.30, -89.28]				
	09/04/12 19:00 CST		20K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:20 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) in an 8-mile wide swath from Harmony Grove to 5 miles east-southeast of Arlington.				
COLUMBIA COUNTY --- PORTAGE [43.55, -89.45], PARDEEVILLE [43.53, -89.28]				
	09/04/12 19:05 CST		15K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:15 CST		0	Source: Law Enforcement
Law enforcement officials reported trees were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) in an 5-mile wide swath from Portage to Pardeeville.				
IOWA COUNTY --- EDMUND [42.97, -90.25], DODGEVILLE [42.97, -90.13]				
	09/04/12 19:05 CST		10K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:12 CST		0	Source: Law Enforcement
Law enforcement officials reported trees and power lines were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) along a path from Edmund to Dodgeville.				
DANE COUNTY --- 2.0 W SUN PRAIRIE [43.18, -89.24]				
	09/04/12 19:10 CST		5K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:10 CST		0	Source: Public
The public reported trees were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) 2 miles west of Sun Prairie.				
IOWA COUNTY --- MINERAL POINT AIRPORT [42.89, -90.23]				
	09/04/12 19:11 CST		0	Thunderstorm Wind (MG 51 kt)
	09/04/12 19:11 CST		0	Source: AWOS
DANE COUNTY --- 1.0 NE CAMP RANDALL STADIUM [43.08, -89.40]				
	09/04/12 19:12 CST		5K	Thunderstorm Wind (EG 52 kt)
	09/04/12 19:12 CST		0	Source: Public
The public reported large tree branches were blown down by damaging thunderstorm wind gusts estimated at 50 knots (60 mph) 1 mile northeast of Camp Randall Stadium in Madison.				
DANE COUNTY --- (MSN)TRUAX FLD MADIS [43.13, -89.33]				
	09/04/12 19:14 CST		0	Thunderstorm Wind (MG 50 kt)
	09/04/12 19:14 CST		0	Source: ASOS
GREEN COUNTY --- NEW GLARUS [42.82, -89.63], 7.0 E DAYTON [42.82, -89.36]				
	09/04/12 19:20 CST		5K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:30 CST		0	Source: Law Enforcement
Law enforcement officials reported trees were blown down by damaging thunderstorm wind gusts estimated to be 56 knots (65 mph) along a path from New Glarus to 7 miles east of Dayton.				
DANE COUNTY --- 2.0 SSW STOUGHTON [42.89, -89.24]				
	09/04/12 19:24 CST		2K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:24 CST		0	Source: Amateur Radio
A HAM radio operator reported trees and large branches were blown down by damaging thunderstorm wind gusts estimated to be 56 knots (65 mph) 2 miles south-southwest of Stoughton.				

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JEFFERSON COUNTY --- LAKE MILLS [43.08, -88.90]				
	09/04/12 19:31 CST		8K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:31 CST		0	Source: 911 Call Center
The Jefferson County 911 Call Center reported trees and power lines were blown down by damaging thunderstorm wind gusts estimated to be 56 knots (64 mph) in Lake Mills.				
DODGE COUNTY --- LOWELL [43.33, -88.80]				
	09/04/12 19:35 CST		10K	Thunderstorm Wind (EG 52 kt)
	09/04/12 19:35 CST		0	Source: Trained Spotter
A trained spotter reported trees and power lines blown down by damaging thunderstorm wind gusts estimated at 52 knots (60 mph) in Lowell.				
ROCK COUNTY --- EVANSVILLE [42.78, -89.30], 5.0 ENE MILTON [42.80, -88.86]				
	09/04/12 19:35 CST		4K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:35 CST		0	Source: Trained Spotter
A trained spotter reported trees were blown down by damaging thunderstorm wind gusts estimated to be 56 knots (64 mph) along a path from Evansville to 5 miles east-northeast of Milton.				
DANE COUNTY --- 1.0 NE STOUGHTON [42.93, -89.21]				
	09/04/12 19:39 CST		2K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:39 CST		0	Source: Trained Spotter
A trained spotter reported trees were blown down by damaging thunderstorm wind gusts estimated to be 56 knots (65 mph) 1 mile northeast of Stoughton.				
LAFAYETTE COUNTY --- 7.0 NE DARLINGTON [42.75, -90.02]				
	09/04/12 19:50 CST		2K	Thunderstorm Wind (EG 56 kt)
	09/04/12 19:50 CST		0	Source: Law Enforcement
Law enforcement officials reported trees were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) 7 miles northeast of Darlington.				
JEFFERSON COUNTY --- 1.0 E FT ATKINSON [42.93, -88.83]				
	09/04/12 19:53 CST		2K	Thunderstorm Wind (EG 52 kt)
	09/04/12 19:53 CST		0	Source: Trained Spotter
A trained spotter reported trees were blown down by damaging thunderstorm wind gusts estimated to be 52 knots (60 mph) 1 mile east of Fort Atkinson.				
WAUKESHA COUNTY --- 5.0 NW EAGLE [42.93, -88.54], EAGLE [42.88, -88.47]				
	09/04/12 20:05 CST		3K	Thunderstorm Wind (EG 56 kt)
	09/04/12 20:10 CST		0	Source: 911 Call Center
The Waukesha County 911 Center received reports of trees blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) from 5 miles northwest of Eagle to Eagle.				
LAFAYETTE COUNTY --- NEW DIGGING [42.53, -90.33]				
	09/04/12 20:10 CST		2K	Thunderstorm Wind (EG 56 kt)
	09/04/12 20:10 CST		0	Source: Law Enforcement
Law enforcement officials reported trees were blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) in New Digging.				
WALWORTH COUNTY --- LA GRANGE [42.80, -88.60], DELAVAN [42.63, -88.63]				
	09/04/12 20:10 CST		4K	Thunderstorm Wind (EG 56 kt)
	09/04/12 20:25 CST		0	Source: 911 Call Center
The Walworth County 911 Center received reports of trees blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) from La Grange to Delavan.				
RACINE COUNTY --- TICHIGAN [42.83, -88.22], BURLINGTON [42.67, -88.27]				
	09/04/12 20:29 CST		10K	Thunderstorm Wind (EG 56 kt)
	09/04/12 20:40 CST		0	Source: 911 Call Center

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The Racine County 911 Call Center reported trees and power lines blown down by damaging thunderstorm wind gusts estimated at 56 knots (65 mph) from Tichigan to Burlington.				

RACINE COUNTY --- 3.0 SE WIND LAKE [42.80, -88.11]

09/04/12 20:35 CST	5K	Thunderstorm Wind (EG 52 kt)
09/04/12 20:35 CST	0	Source: Trained Spotter

A trained spotter reported trees and power lines blown down by damaging thunderstorm wind gusts estimated at 52 knots (60 mph) in Wind Lake.

KENOSHA COUNTY --- WHEATLAND [42.60, -88.20], PARIS [42.63, -88.05]

09/04/12 20:40 CST	5K	Thunderstorm Wind (EG 52 kt)
09/04/12 20:50 CST	0	Source: Law Enforcement

Law enforcement officials reported trees were blown down by damaging thunderstorm wind gusts estimated at 52 knots (60 mph) along a Wheatland to Paris line.

OZAUCKEE COUNTY --- FREDONIA [43.47, -87.95]

09/04/12 20:42 CST	3K	Thunderstorm Wind (EG 50 kt)
09/04/12 20:42 CST	0	Source: Law Enforcement

Law enforcement officials reported trees were blown down by damaging thunderstorm wind gusts estimated at 50 knots (58 mph) in Fredonia.

KENOSHA COUNTY --- 1.5 NE BENET LAKE [42.52, -88.01]

09/04/12 20:52 CST	5K	Thunderstorm Wind (EG 52 kt)
09/04/12 20:52 CST	0	Source: Law Enforcement

Law enforcement officials reported were trees blown down by damaging thunderstorm wind gusts estimated at 60 mph (52 knots) 1.5 miles northeast of Benet Lake.

LAFAYETTE COUNTY --- BELMONT [42.73, -90.33]

09/05/12 01:55 CST	0	Hail (0.75 in)
09/05/12 01:55 CST	0	Source: Trained Spotter

Thunderstorms developed in the early evening of September 4th in an unstable air mass over the region with lift from an upper-level disturbance that moved across the western Great Lakes region ahead of a stronger wave in the Northern Plains. CAPE values of 2000 J/kg to 2500 J/kg and 0-6 km bulk shear around 30 knots was sufficient to produce favorable conditions for sustained updrafts. These factors produced clusters of severe thunderstorms that developed along a weak convergent boundary that extended from northeast Minnesota through western Wisconsin. The clusters of supercell thunderstorms produced damaging wind gusts over a good portion of South-Central and Southeast Wisconsin.

ROCK COUNTY --- 1.5 W BELOIT [42.52, -89.06], 1.0 E BELOIT [42.52, -89.01]

09/17/12 14:10 CST	0	Thunderstorm Wind (EG 55 kt)
09/17/12 14:20 CST	0	Source: Newspaper

Scattered trees and large branches were reported to have been blown down along a path from 1 mile west of Beloit to 1 mile east of Beloit.

MILWAUKEE COUNTY --- HALES CORNERS [42.93, -88.05]

09/17/12 14:32 CST	0	Hail (0.75 in)
09/17/12 14:32 CST	0	Source: Amateur Radio

MILWAUKEE COUNTY --- 3.0 NNW (MKE)MITCHELL APT MI [42.99, -87.92]

09/17/12 14:40 CST	0	Hail (1.25 in)
09/17/12 14:40 CST	0	Source: Public

MILWAUKEE COUNTY --- 0.5 N GREENFIELD [42.96, -88.00]

09/17/12 14:42 CST	0	Hail (0.75 in)
09/17/12 14:42 CST	0	Source: Amateur Radio

MILWAUKEE COUNTY --- 0.5 N GREENFIELD [42.96, -88.00]

09/17/12 14:42 CST	2K	Thunderstorm Wind (EG 52 kt)
09/17/12 14:42 CST	0	Source: Amateur Radio

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An amateur radio operator reported small trees blown down by thunderstorm wind gusts estimated at 60 mph (52 knots).

WALWORTH COUNTY --- 1.0 N COMO [42.61, -88.50]

09/17/12 15:00 CST	0	Hail (0.88 in)
09/17/12 15:00 CST	0	Source: Amateur Radio

Forcing for ascent associated with a short-wave trough crossing southern Wisconsin during the afternoon of September 17th enhanced lift along a surface cold front passing through the region. Upper-level divergence associated with the right entrance region of an upper-level jet coincided with the passage of the cold front over Southeast Wisconsin...enhancing thunderstorms that had developed along the front. A few of the storms became severe, producing damaging winds and large hail.

(WI-Z068) GREEN, (WI-Z069) ROCK

09/19/12 15:00 CST	4K	Strong Wind (MAX 39 kt)
09/19/12 17:00 CST	0	

A strong surface pressure-gradient developed between high pressure over the Ohio River Valley and low pressure crossing southern Ontario. This resulted in strong gradient winds from the southwest of 25 to 30 mph (22 to 26 knots)....with gusts estimated up to 45 mph (39 knots) in far southern portions of South-Central Wisconsin during the afternoon of September 19th. Wind gusts between 35 and 40 mph (30 to 35 knots) were reported at many locations across southern Wisconsin. Scattered power outages were reported due to broken tree branches impacting power-lines.